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FIG. 1

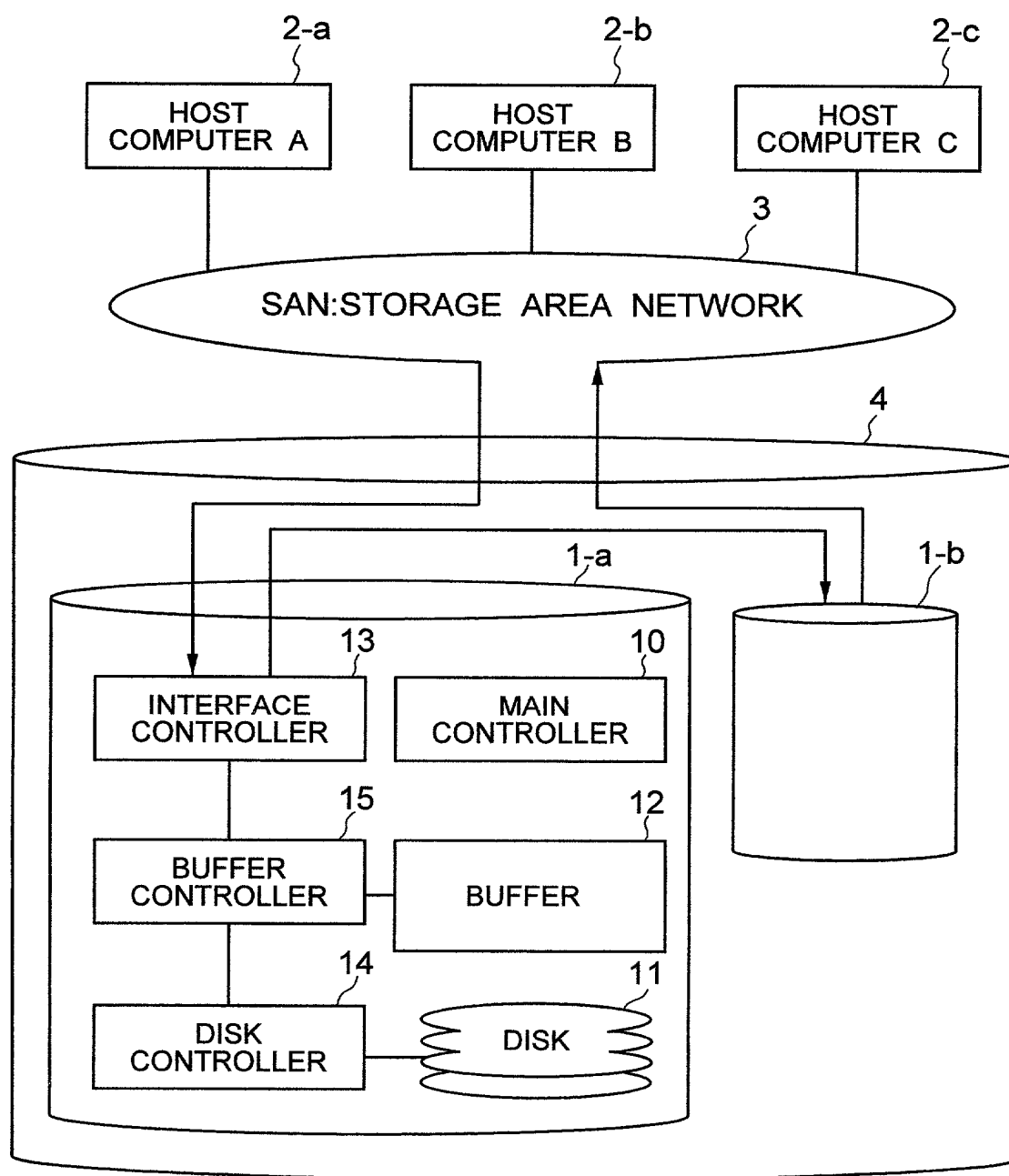


FIG. 2

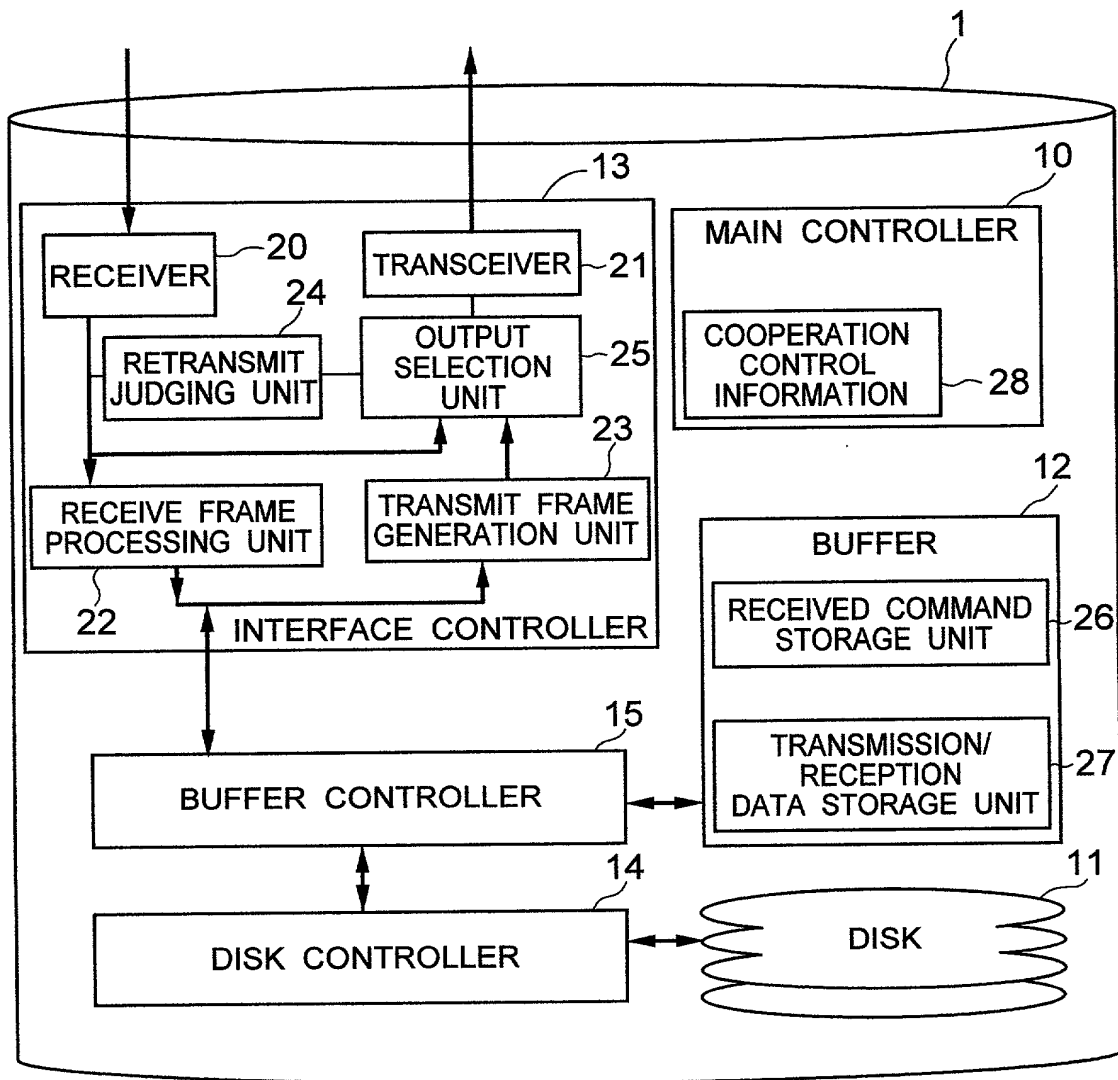


FIG. 3

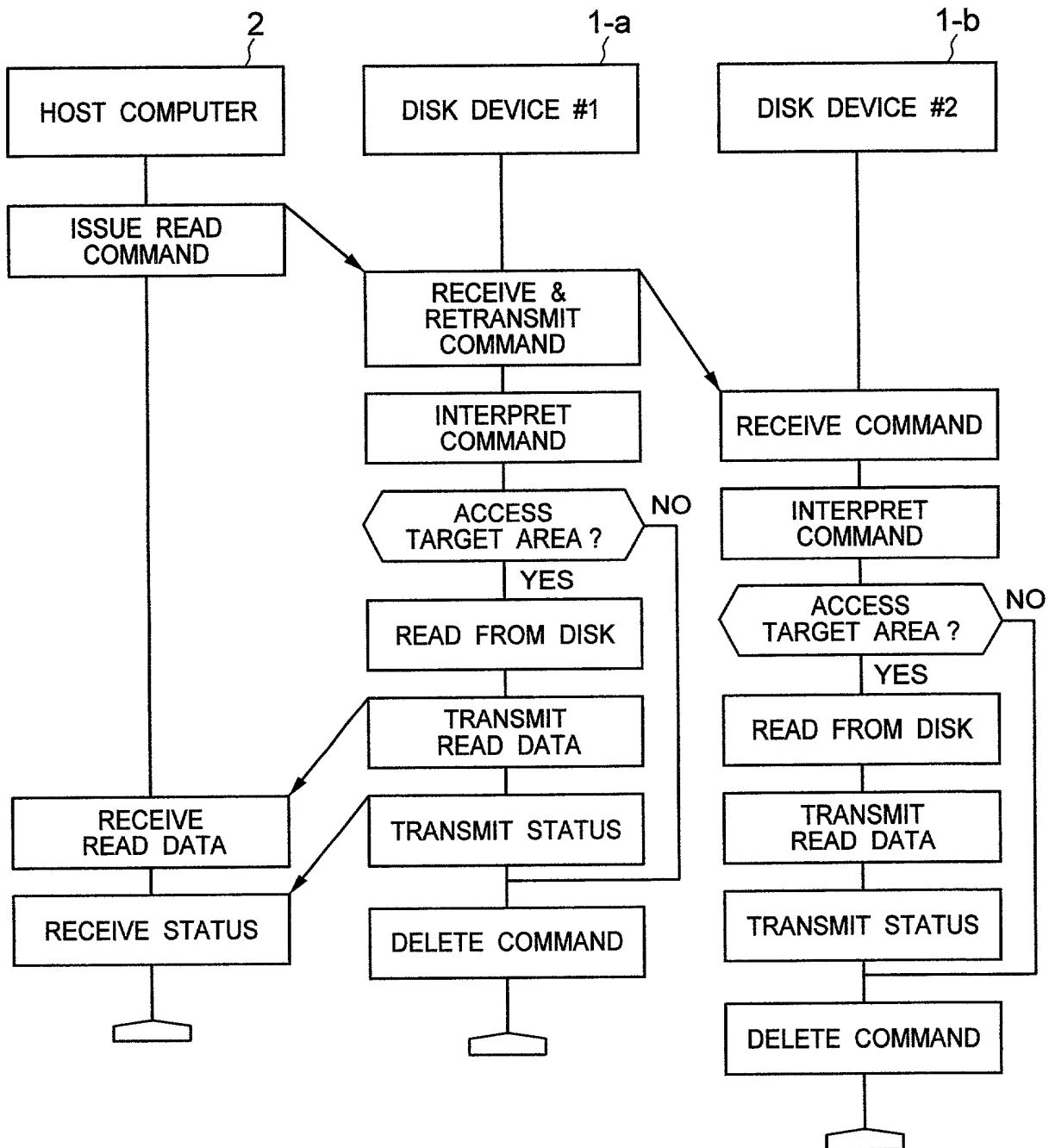
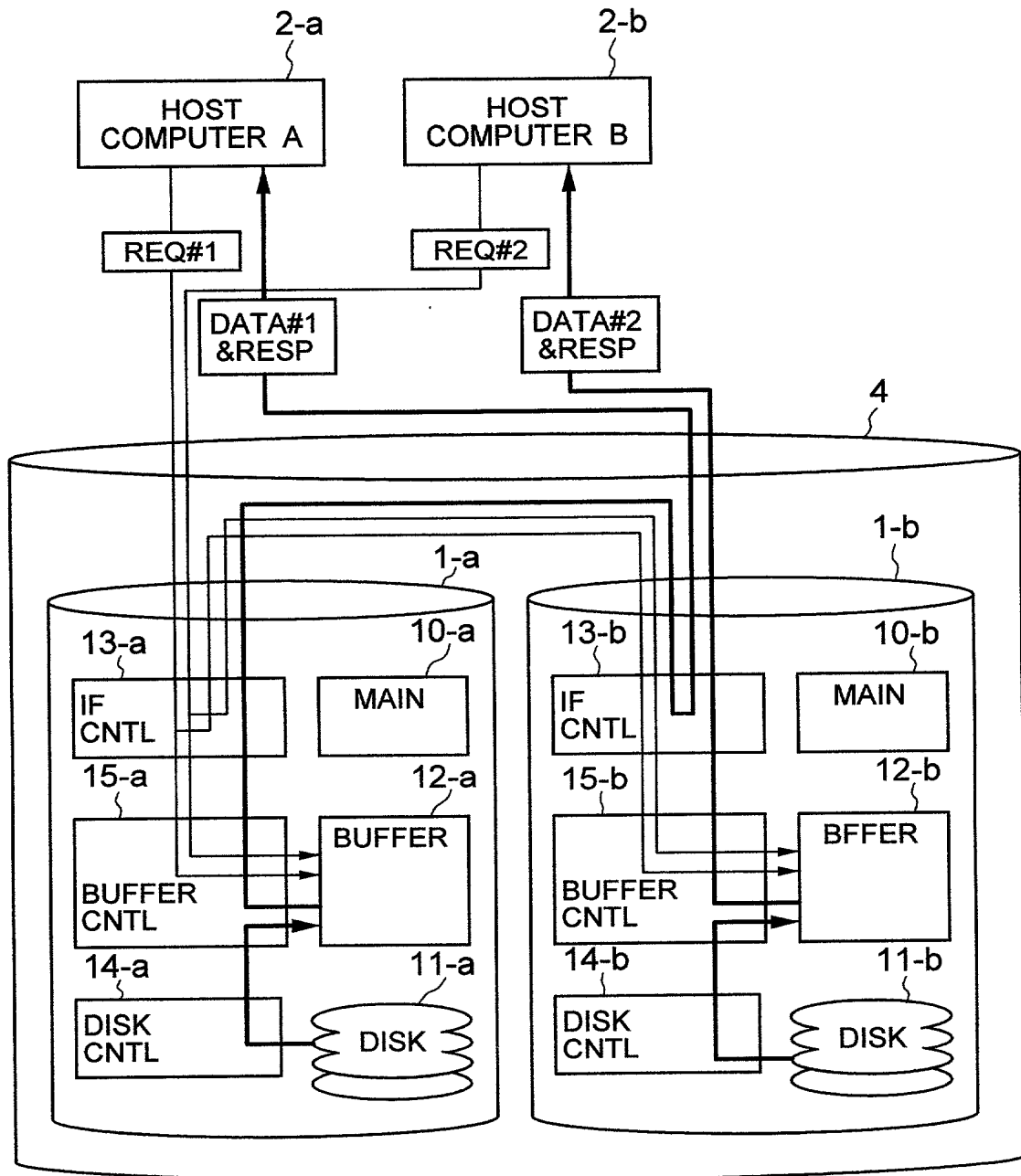


FIG. 4



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FIG. 5

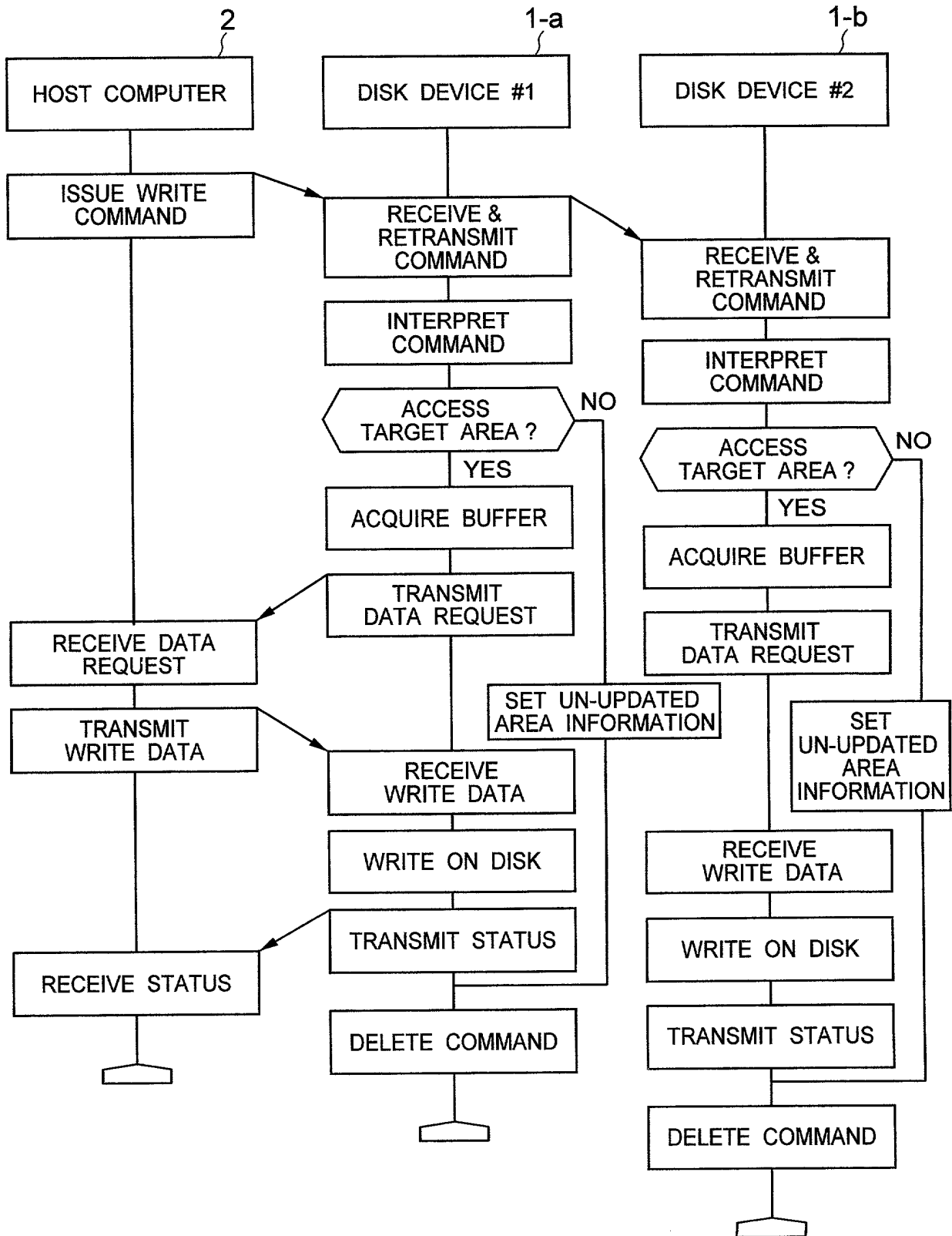


FIG. 6

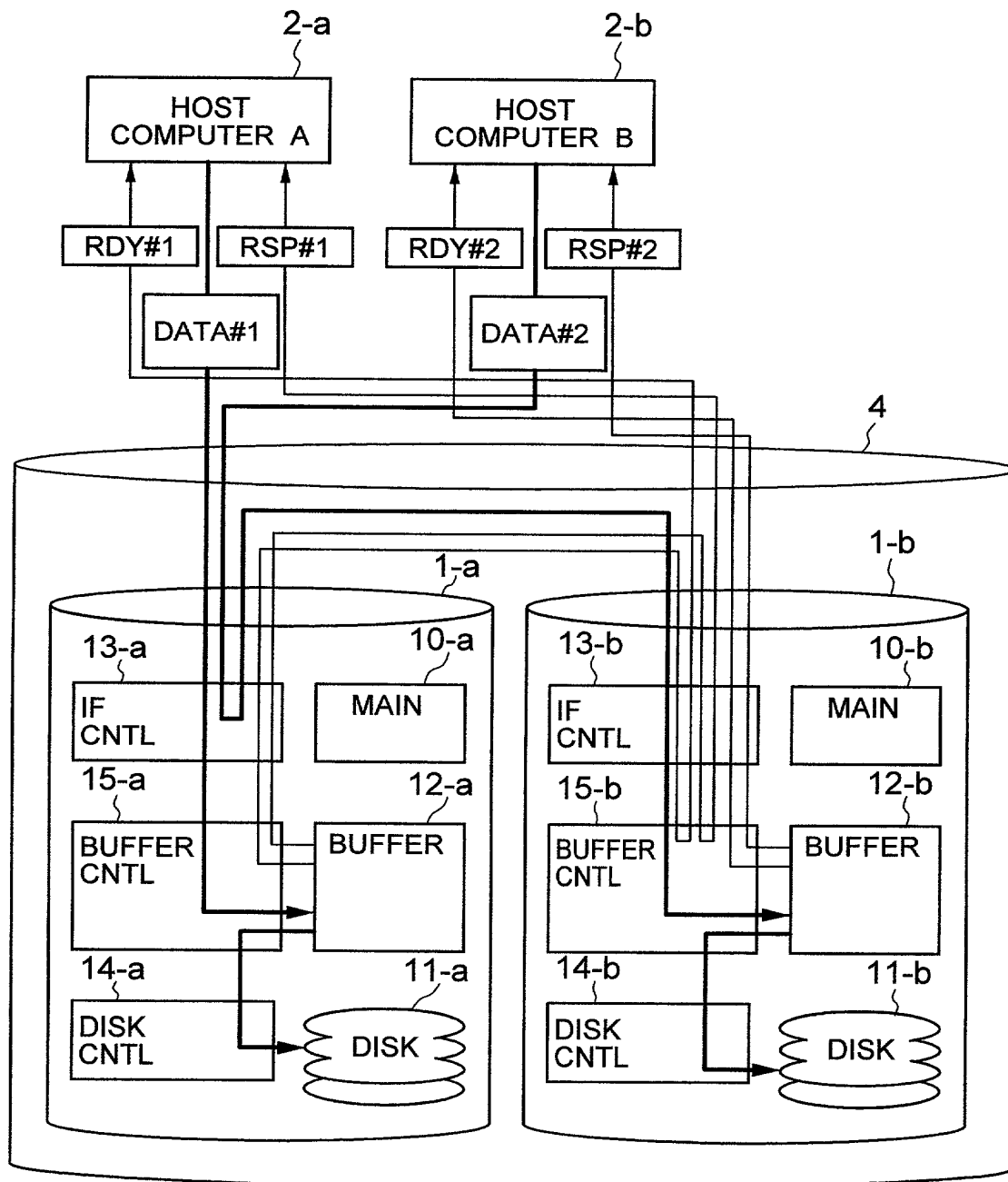


FIG. 7

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#	UN-UPDATED AREA START ADDRESS	UN-UPDATED AREA SIZE	UPDATE INFORMATION
0			
1			
2			
·			
N			

FIG. 8

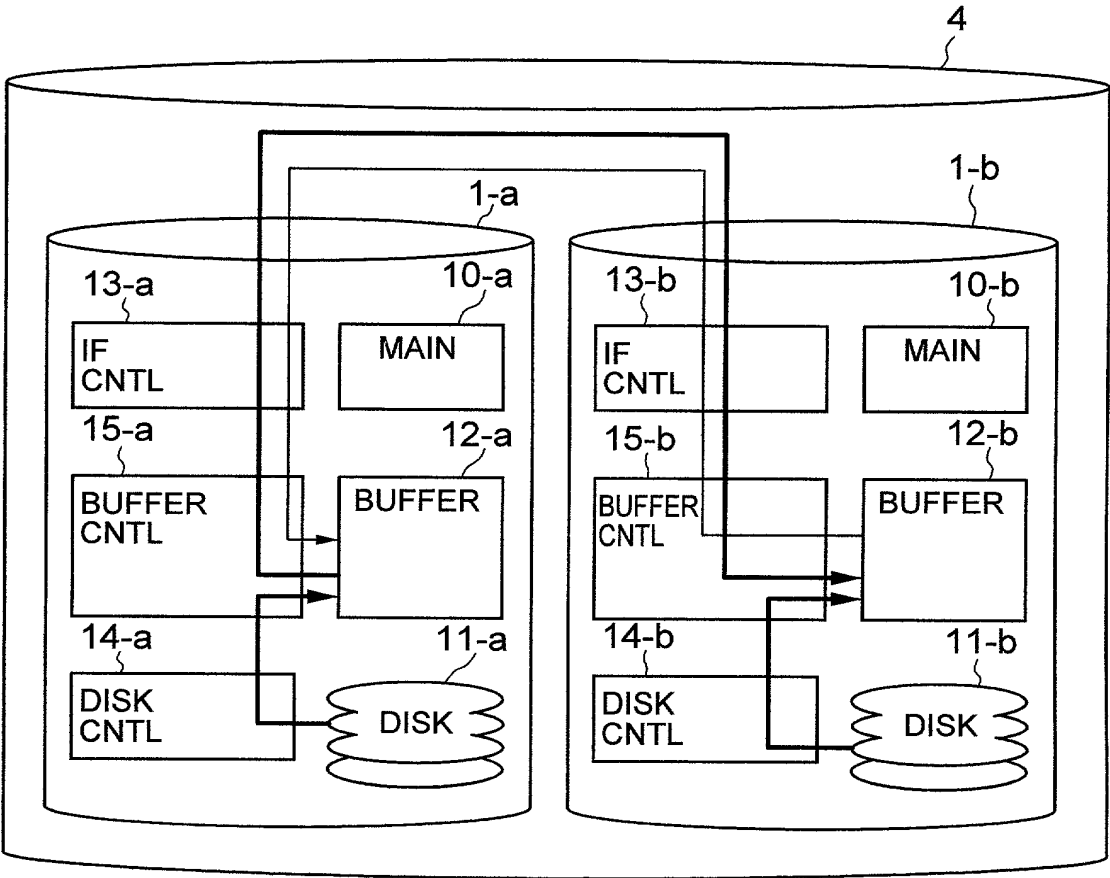


FIG. 9

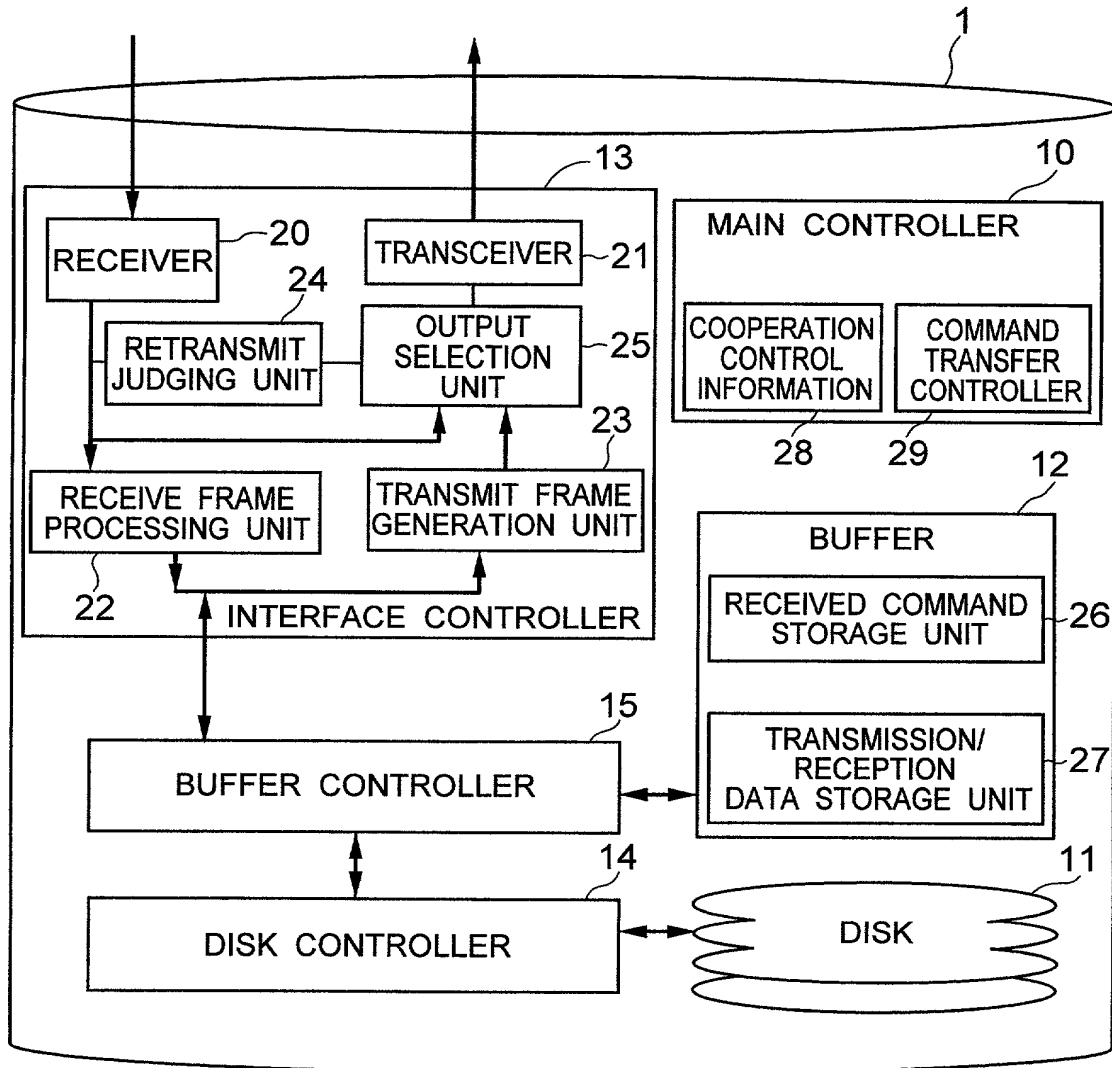


FIG. 10

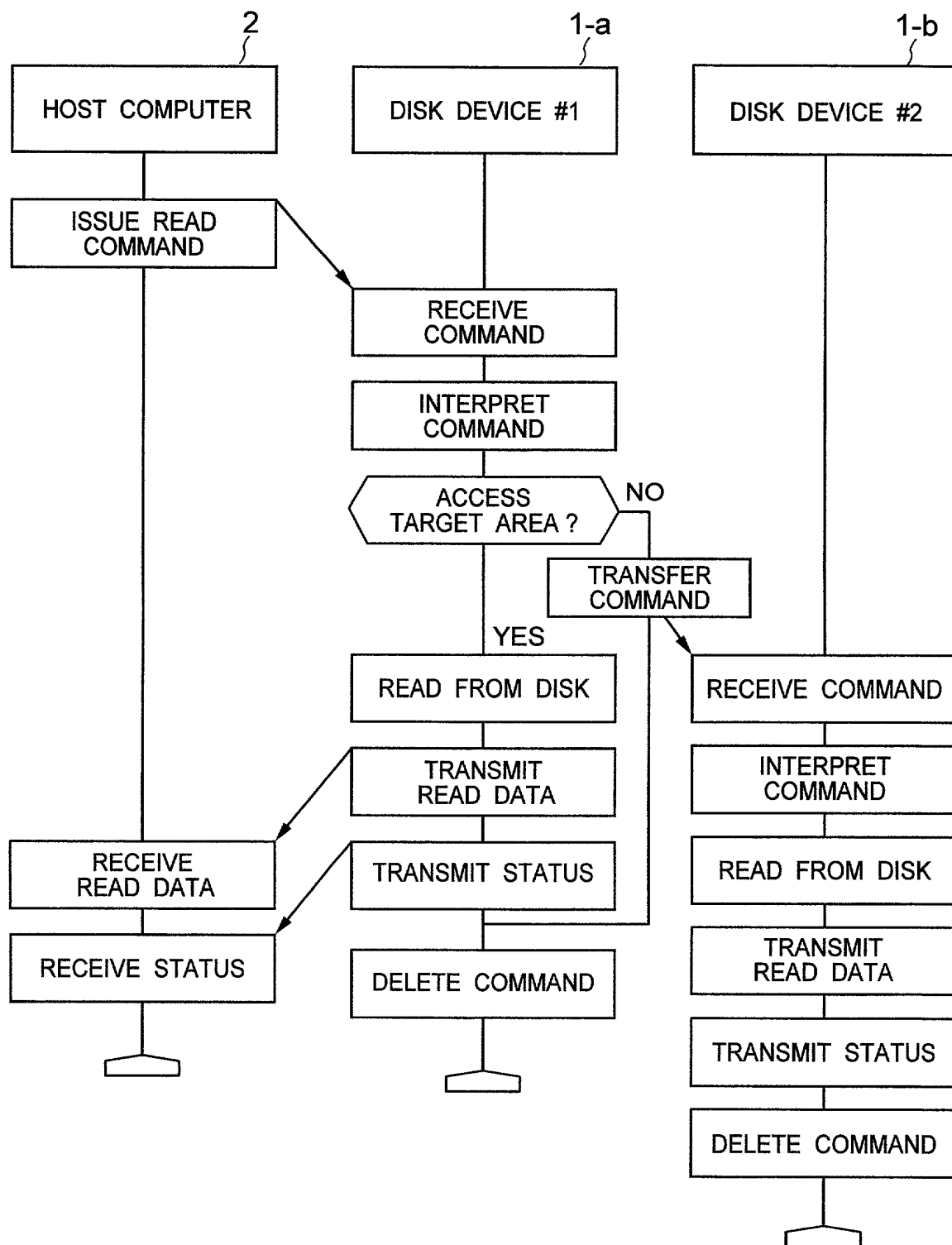
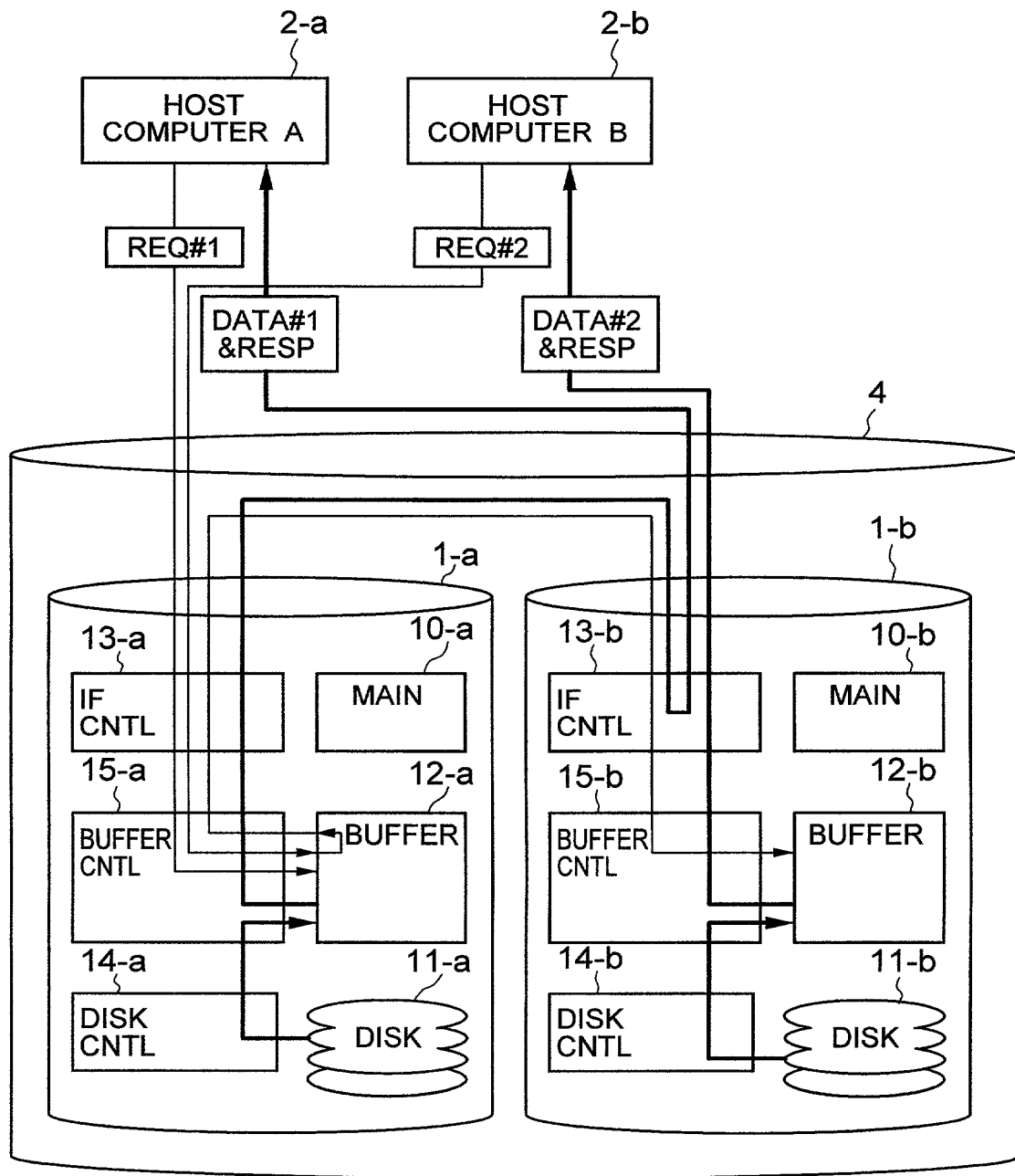


FIG. 11



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FIG. 12

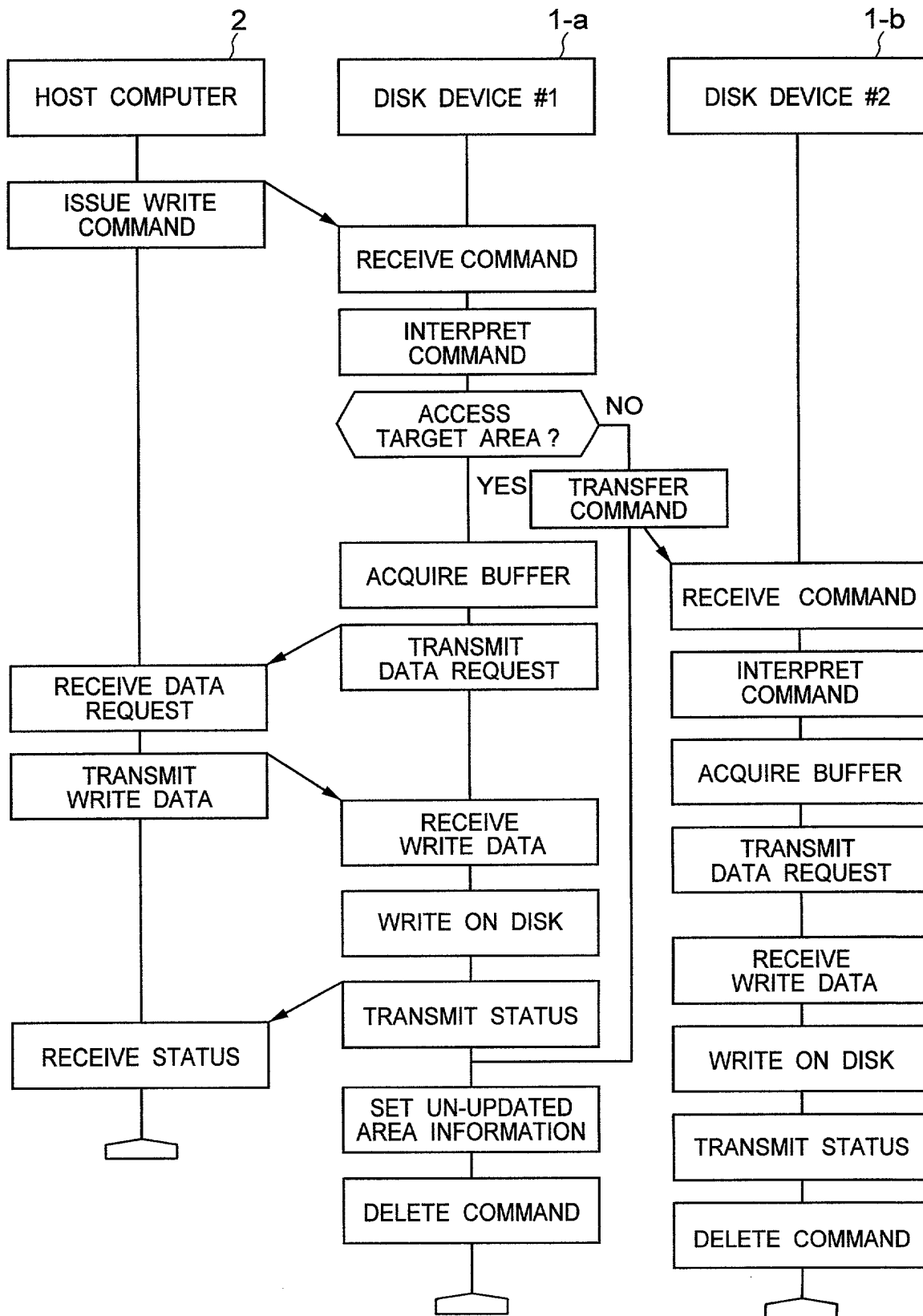


FIG. 13

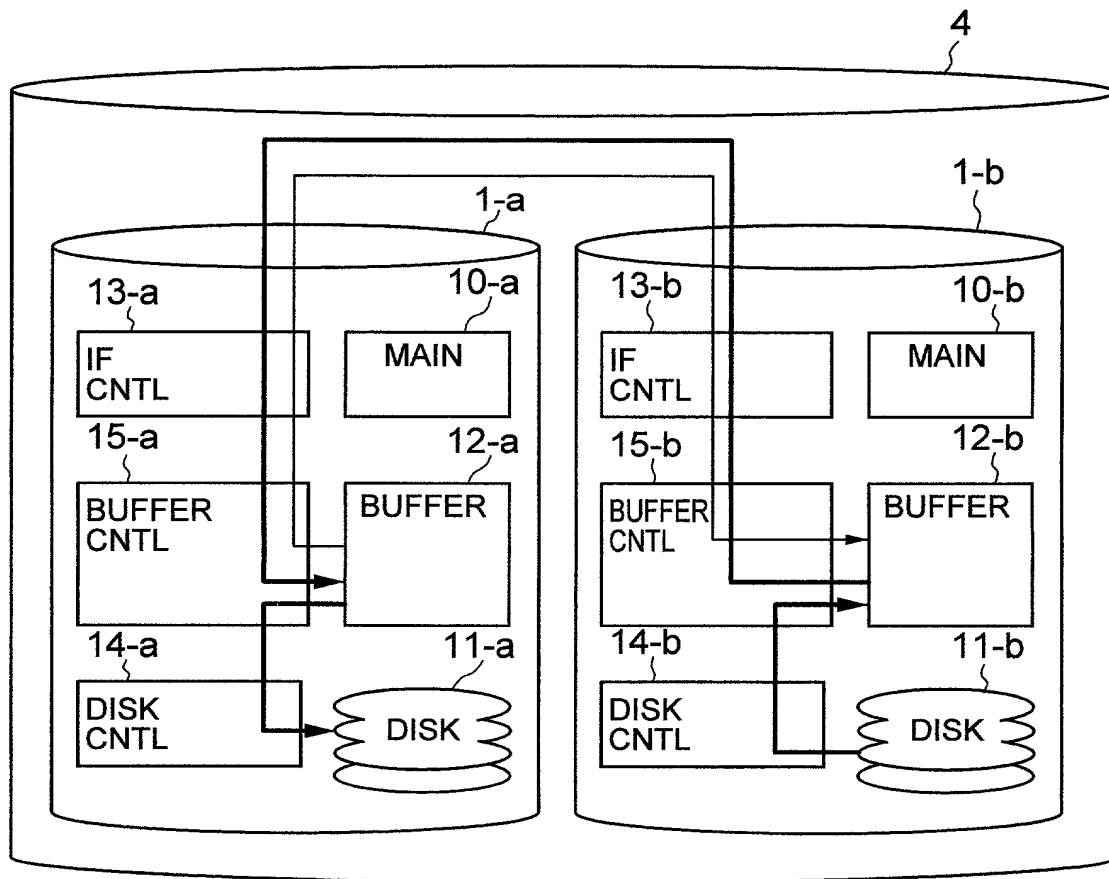


FIG. 14

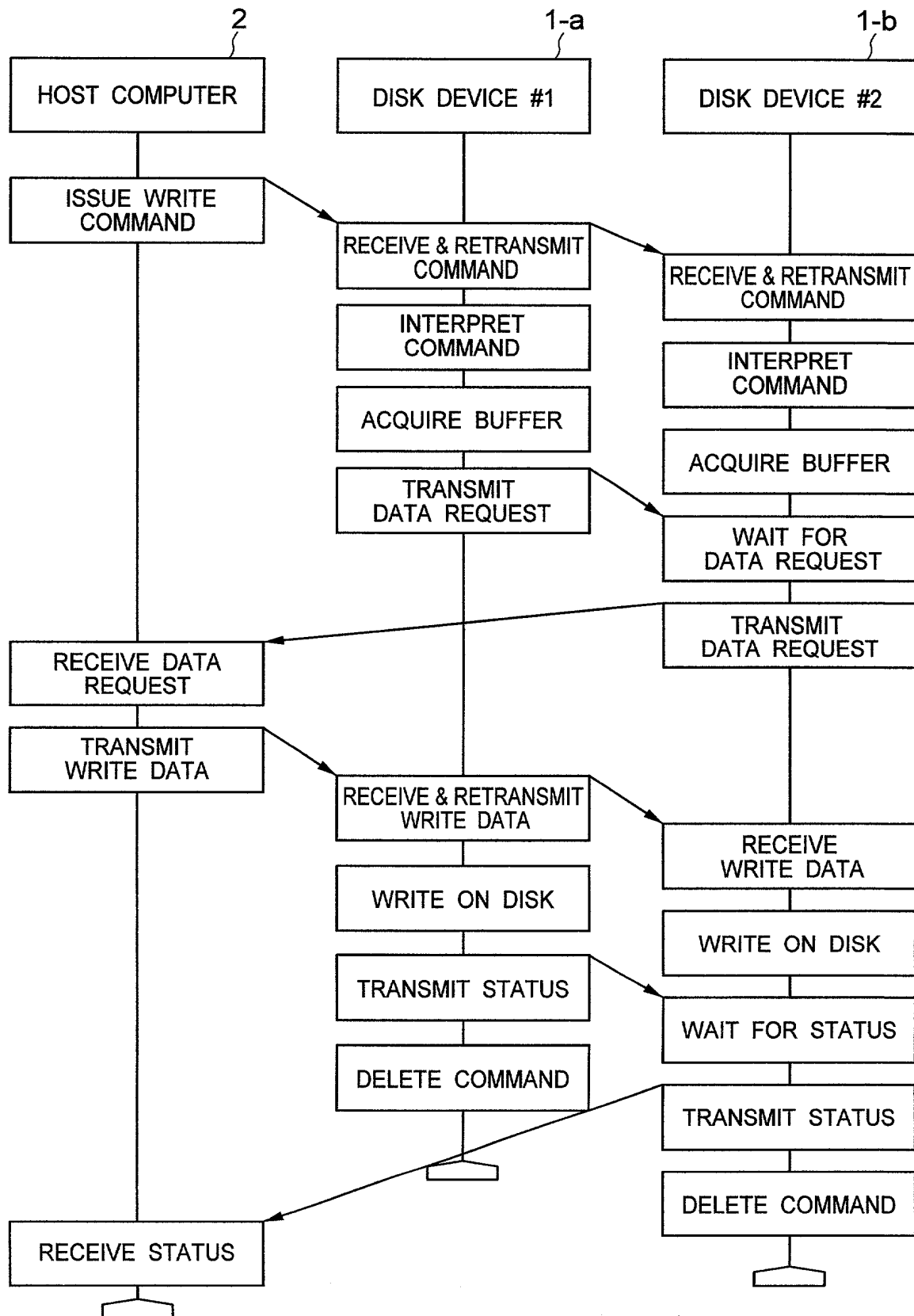


FIG. 15

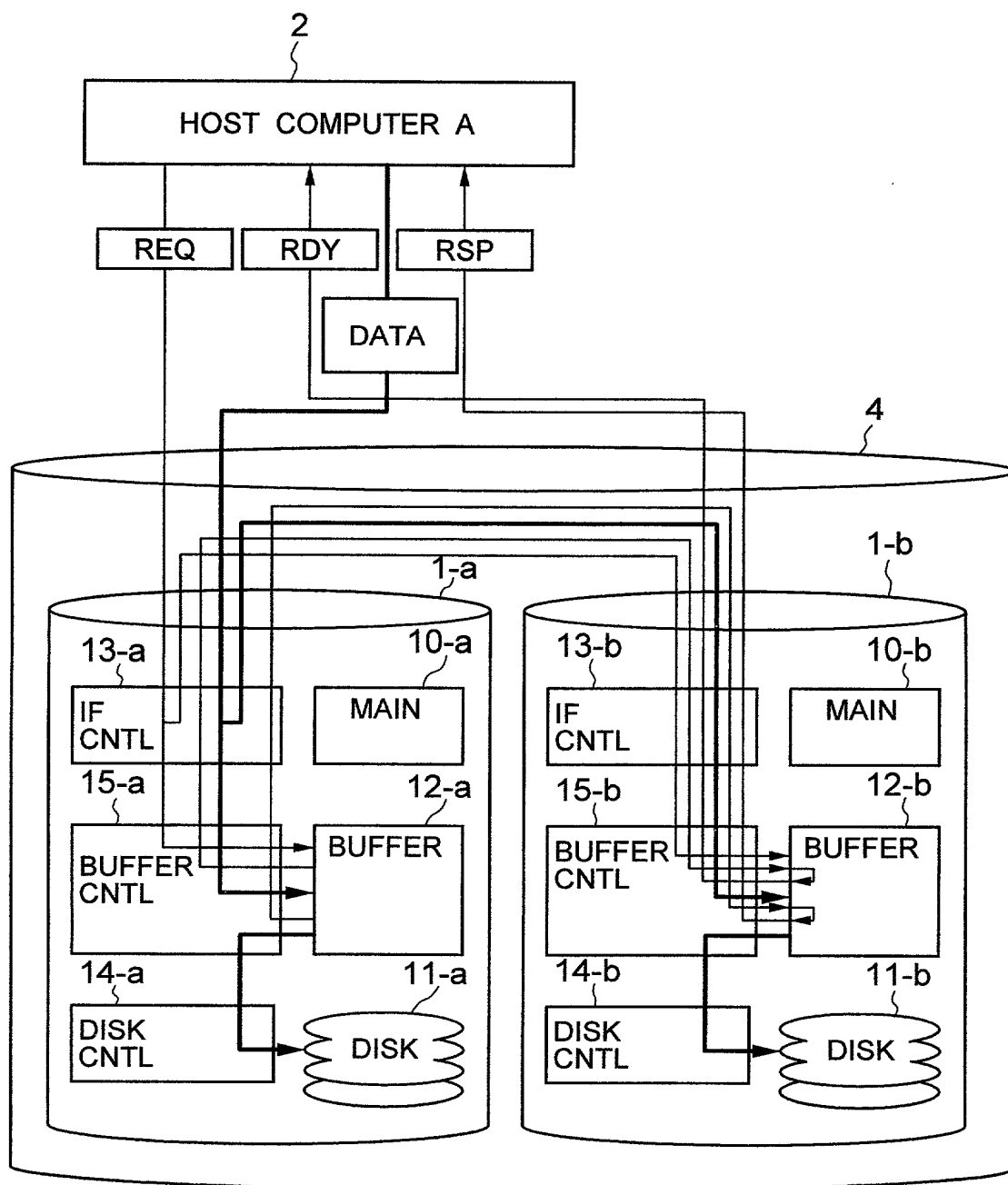


FIG. 16

COOPERATION CONTROL INFORMATION ITEM		EXAMPLE OF SETTING FOR STORAGE DEVICE #1	EXAMPLE OF SETTING FOR STORAGE DEVICE #2
STORAGE SYSTEM ID (SHARED ID)		ID_0	ID_0
STORAGE DEVICE ID (UNIQUE ID)		ID_1	ID_2
COOPERATION STORAGE DEVICE ID (ID UNIQUE TO COOPERATION STORAGE DEVICE)		ID_2	ID_1
COOPERATION PROCESSING (COMMAND TRANSFER) MODE		COMMAND RETRANSMISSION	COMMAND RECEPTION
AREA MANAGEMENT INFORMATION	COOPERATION PROCESSING AREA	0- (N-1)	0- (N-1)
	ACTIVE AREA START ADDRESS	0	N / 2
	ACTIVE AREA SIZE	N / 2	N / 2

FIG. 17

BYTE	BIT	7	6	5	4	3	2	1	0
0-7		FCP_LUN							
8		COMMAND REFERENCE NUMBER							
9		RESERVED					TASK ATTRIBUTE		
10		TASK MANAGEMENT FLAGS							
11		RESERVED					RD DATA	WR DATA	
12		OPERATION CODE							
13		LOGICAL UNIT NUMBER				FLAG			
14-17		LOGICAL BLOCK ADDRESS							
18		RESERVED							
19-20		TRANSFER LENGTH							
21		CONTROL							
22-27		RESERVED							
28-31		FCP_DL							

FIG. 18

WORD	BYTE	3	2	1	0
0		R_CTL	D_ID		
1		CS_CTL	S_ID		
2		TYPE	F_CTL		
3		SEQ_ID	SEQ_ID	SEQ_CNT	
4		OX_ID		RX_ID	
5		PARAMETER			

FIG. 19

#	HOST ID (S_ID)	OX_ID	RX_ID
0	ID_3	OX_00	RX_00
1	ID_3	OX_01	RX_02
2	ID_4	OX_01	RX_04
.	—	—	—
N	—	—	—

1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

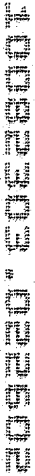


FIG. 21

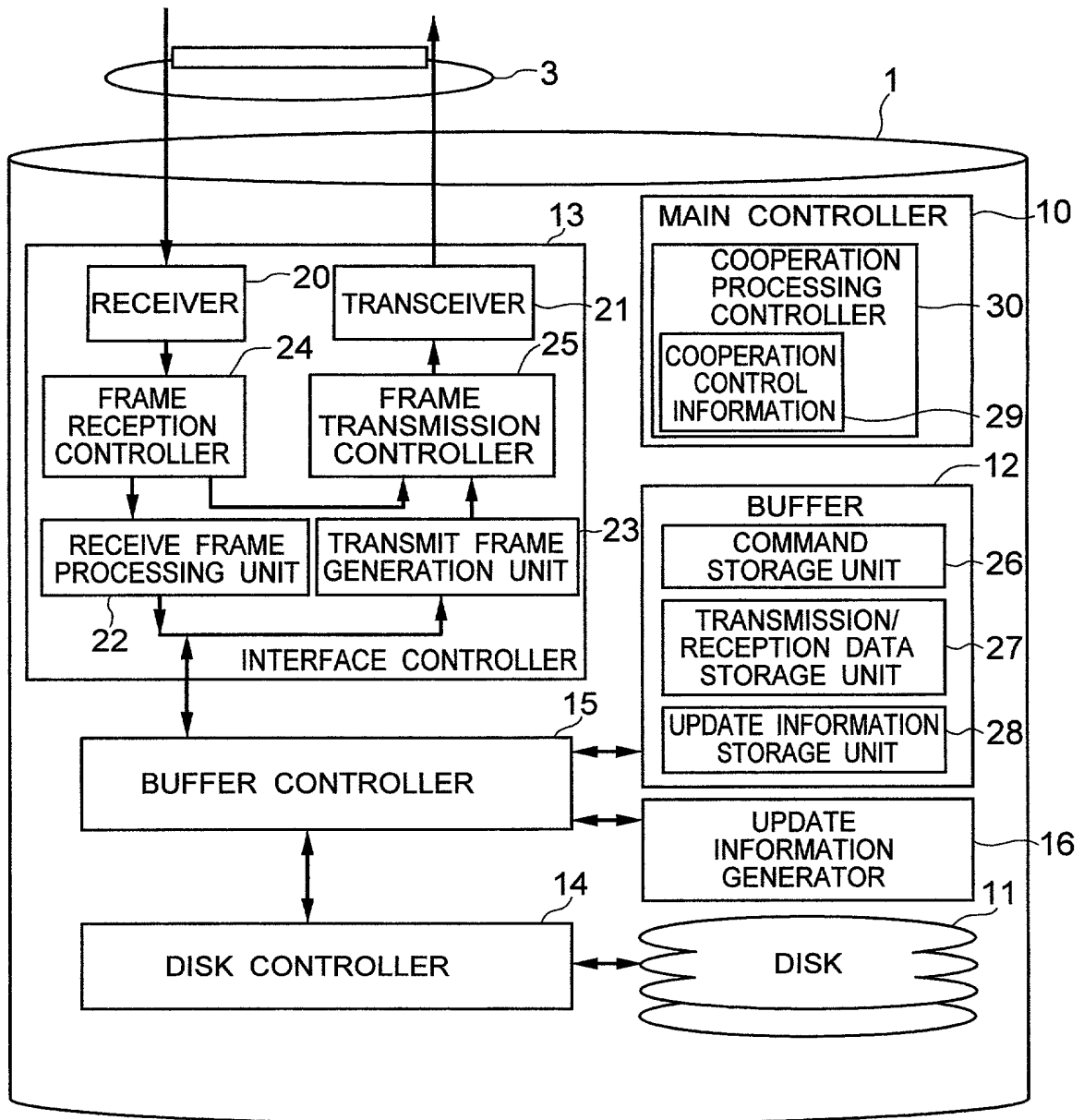


FIG. 22

COOPERATION CONTROL INFORMATION ITEM		STORAGE DEVICE #1	STORAGE DEVICE #2	STORAGE DEVICE #N
STORAGE SYSTEM ID (SHARED ID)		ID_0	←	←
STORAGE DEVICE ID (UNIQUE ID)		ID_1	ID_2	ID_N
POSITION MAP		1	2	N
COMMAND TRANSFER MODE		RECEPTION & RETRANSMISSION	RECEPTION & RETRANSMISSION	RECEPTION ONLY
REDUNDANT CONFIGURATION MANAGEMENT INFORMATION	RAID LEVEL	5	←	←
	NO. OF DATA DISKS	N-1	←	←
	NO. OF REDUNDANT DATA DISKS	1	←	←
	REDUNDANT DATA MANAGEMENT SIZE	64 (kB)	←	←

FIG. 23

SOF	HEADER	PAYLOAD	CRC	EOF
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FIG. 25

BYTE	7	6	5	4	3	2	1	0
0-7	FCP_LUN							
8	COMMAND REFERENCE NUMBER							
9	RESERVED					TASK ATTRIBUTE		
10	TASK MANAGEMENT FLAGS							
11	RESERVED					RD DATA		WR DATA
12	OPERATION CODE							
13	LOGICAL UNIT NUMBER				FLAG			
14-17	LOGICAL BLOCK ADDRESS							
18	RESERVED							
19-20	TRANSFER LENGTH							
21	CONTROL							
22-27	RESERVED							
28-31	FCP_DL							

FIG. 26

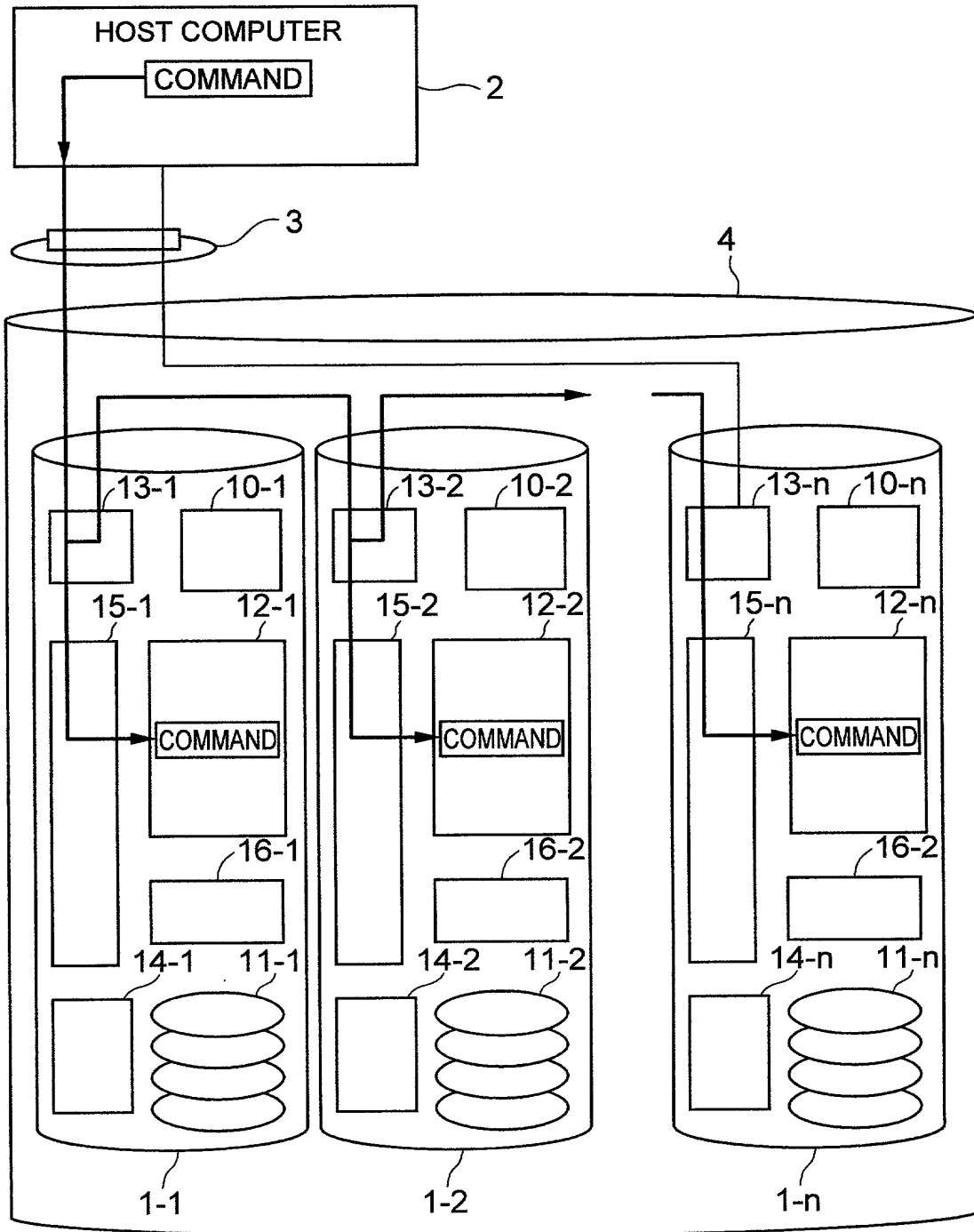


FIG. 27

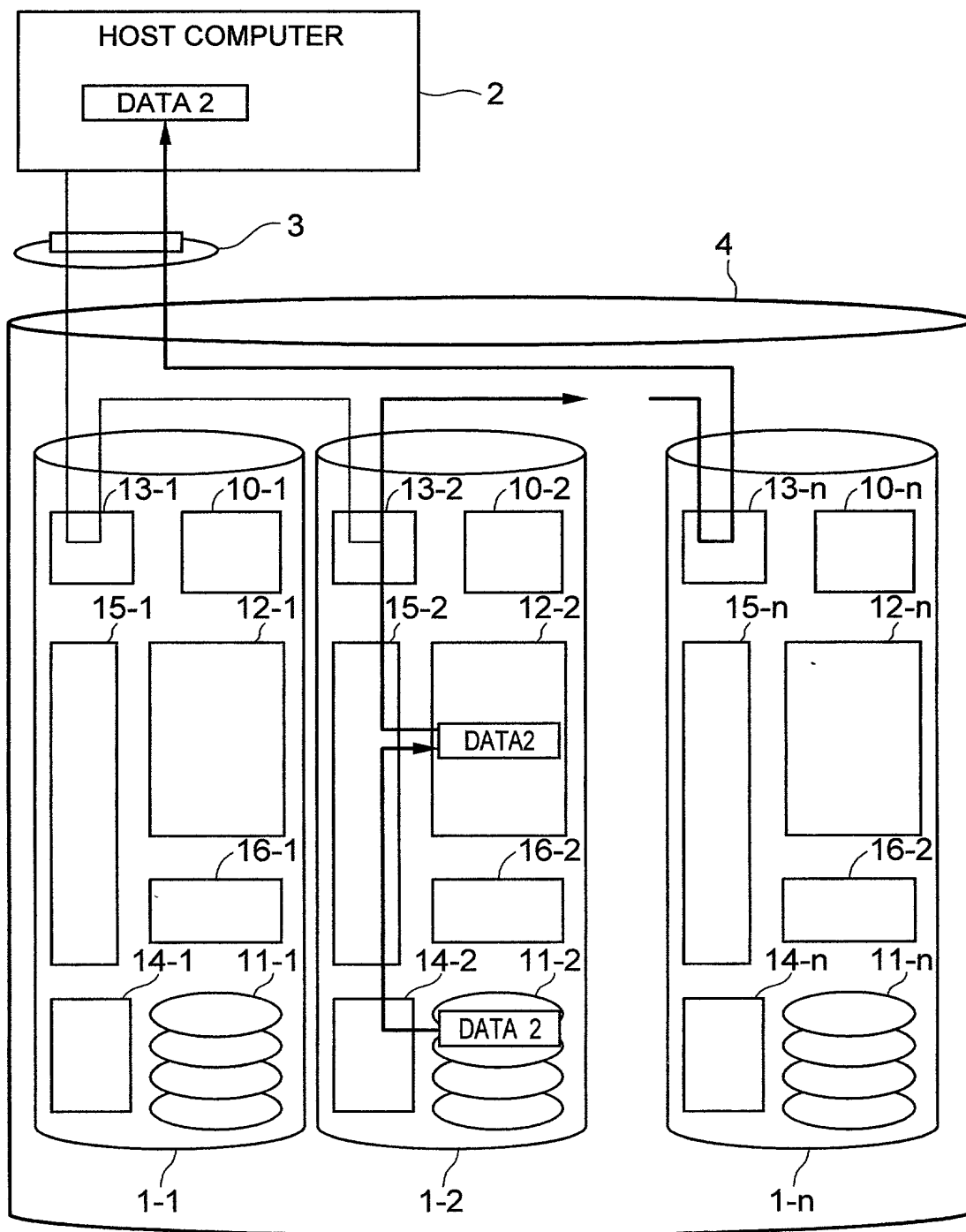


FIG. 28

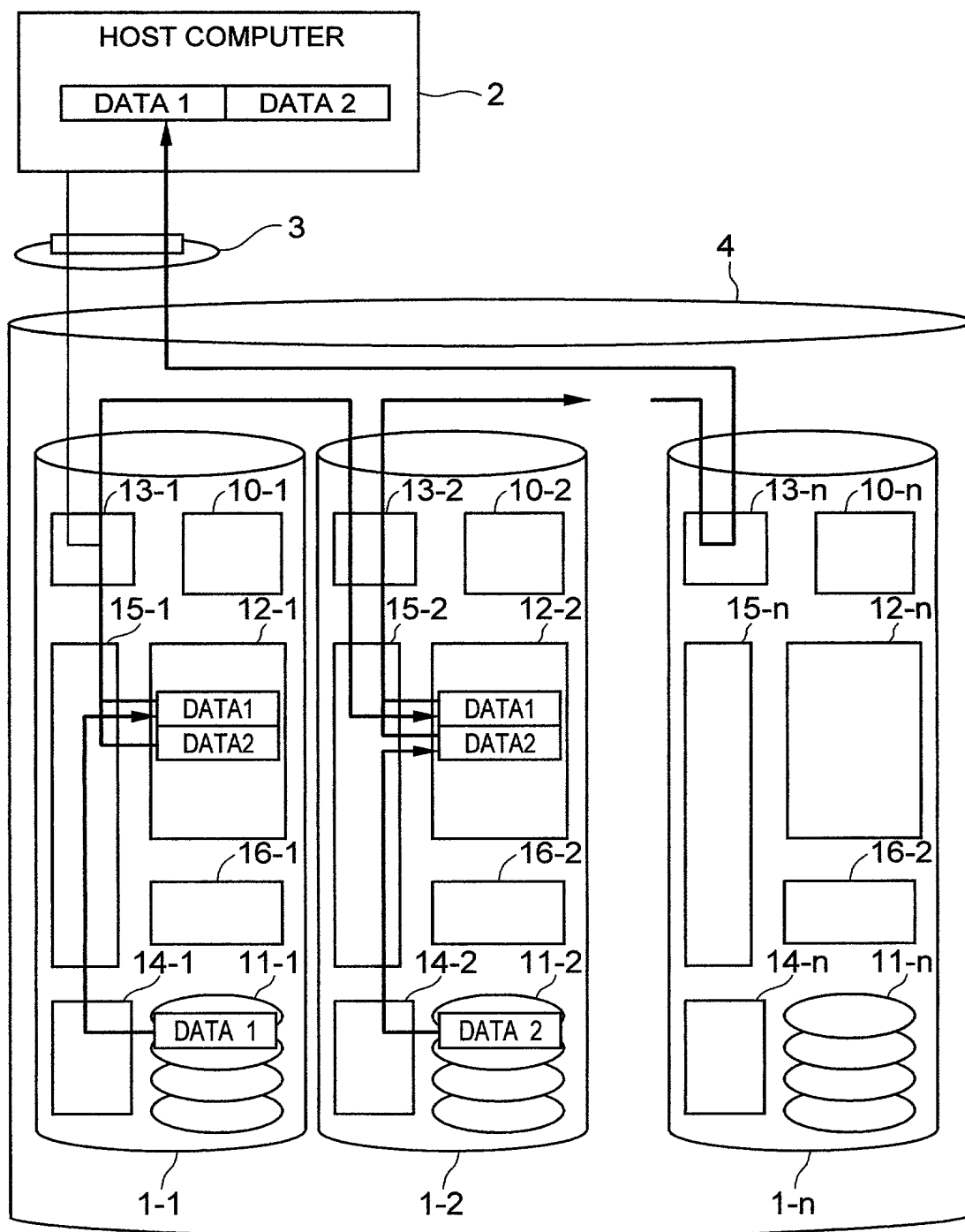


FIG. 29

BYTE ^{BIT}	7	6	5	4	3	2	1	0
0-X	DATA_VALID BIT							
-	USER (READ/WRITE) DATA SEGMENT 0							
-	:							
-	USER (READ/WRITE) DATA SEGMENT n							

209220 " E0E2300T

FIG. 30

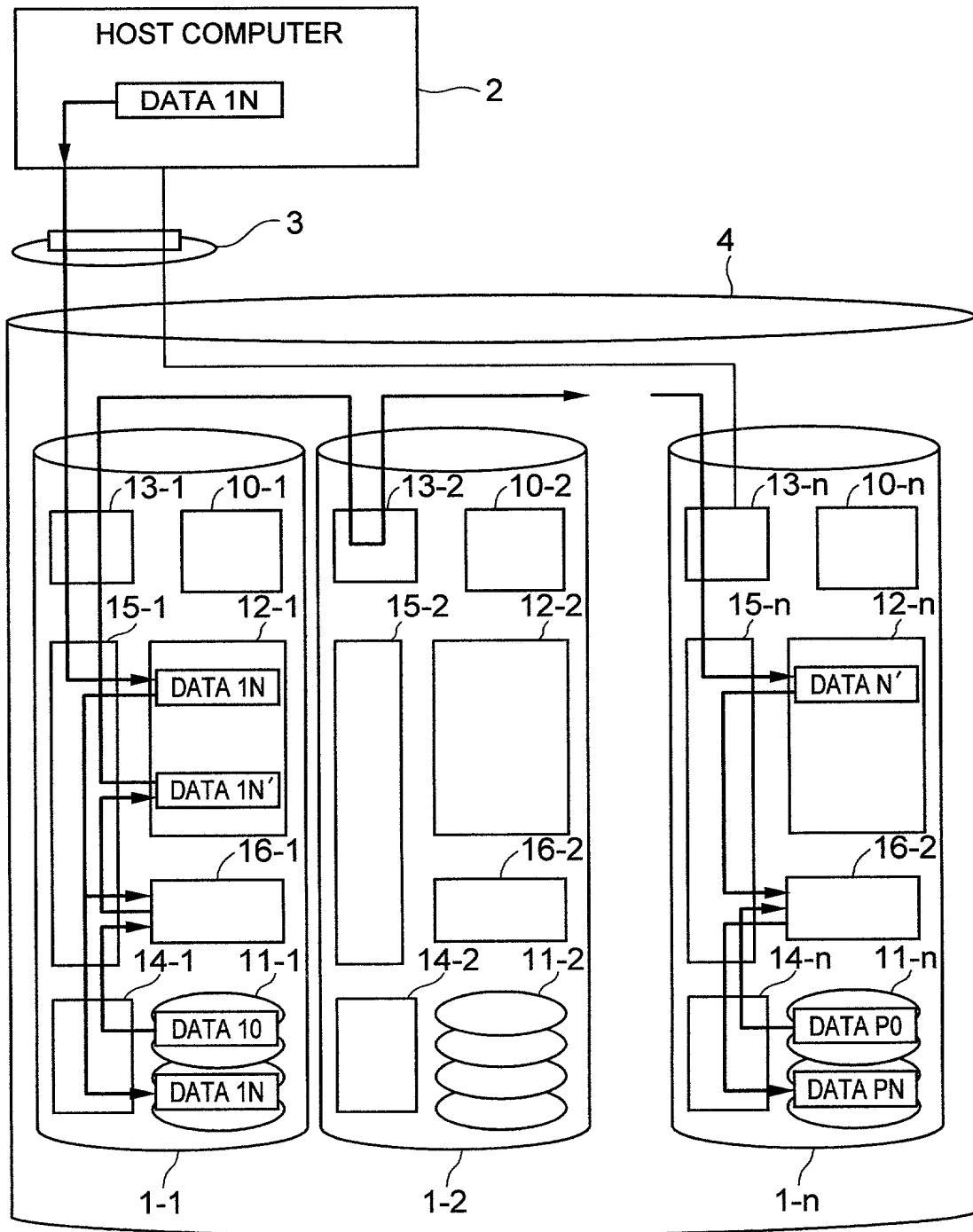


FIG. 31

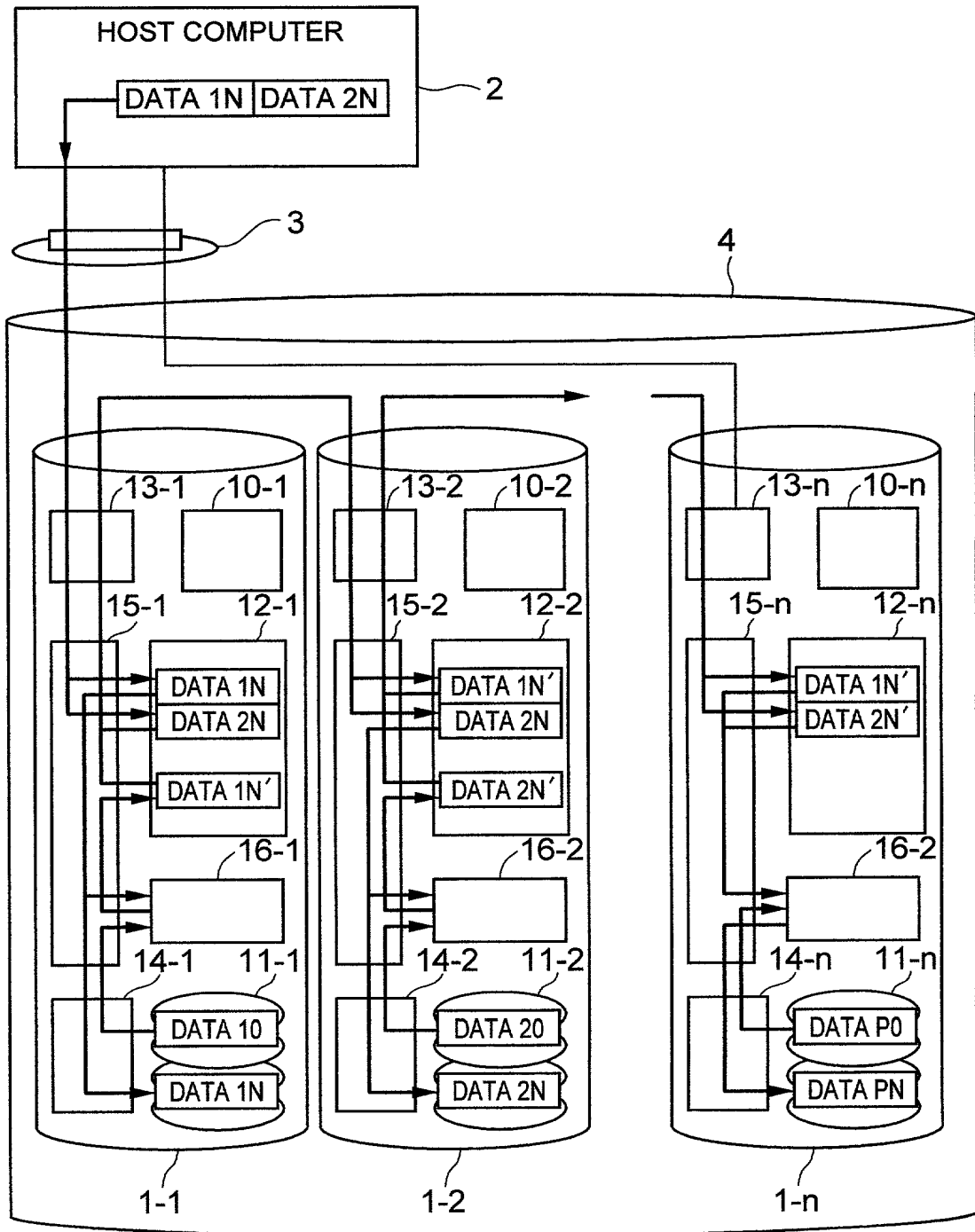


FIG. 32

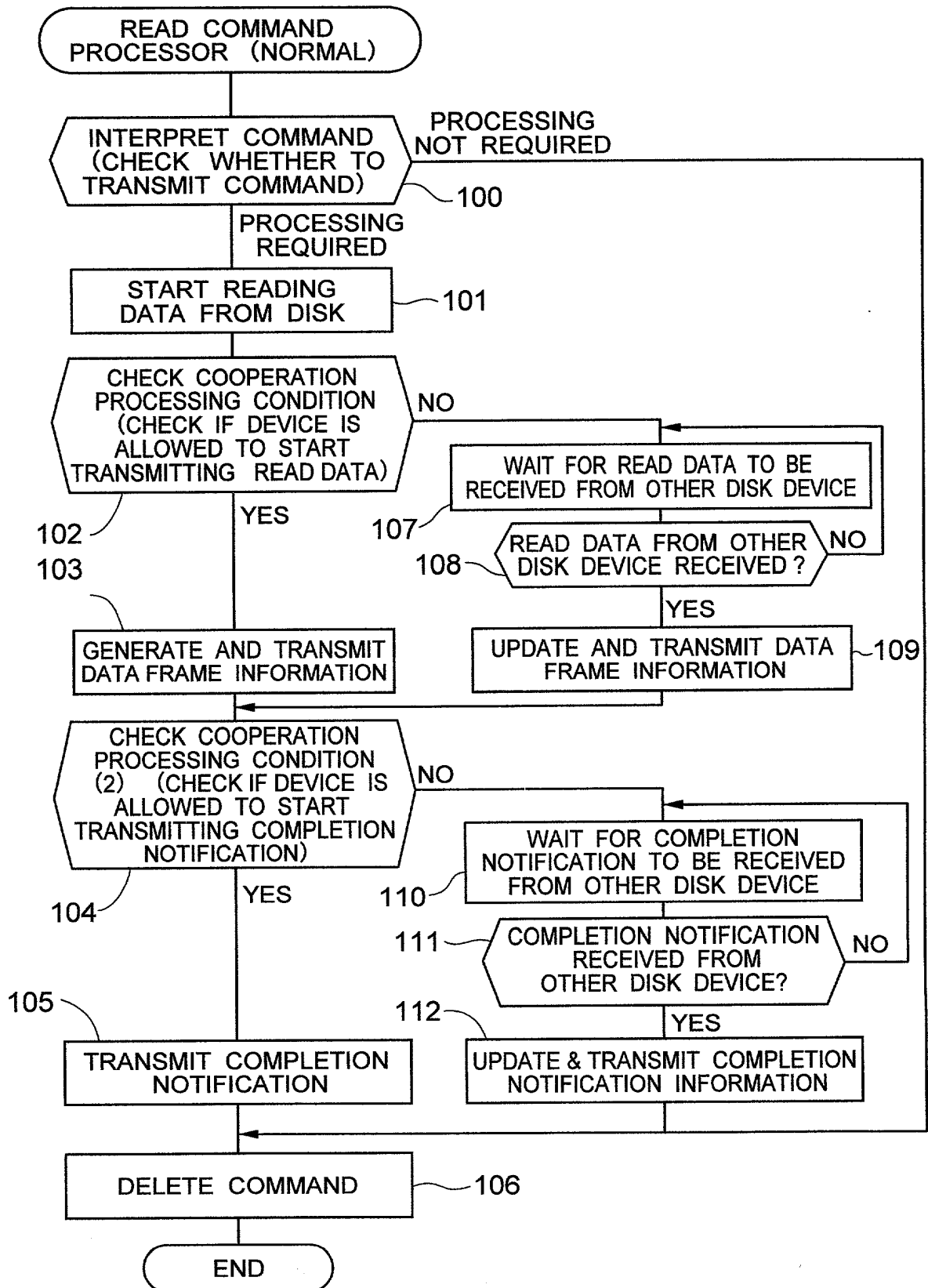


FIG. 33

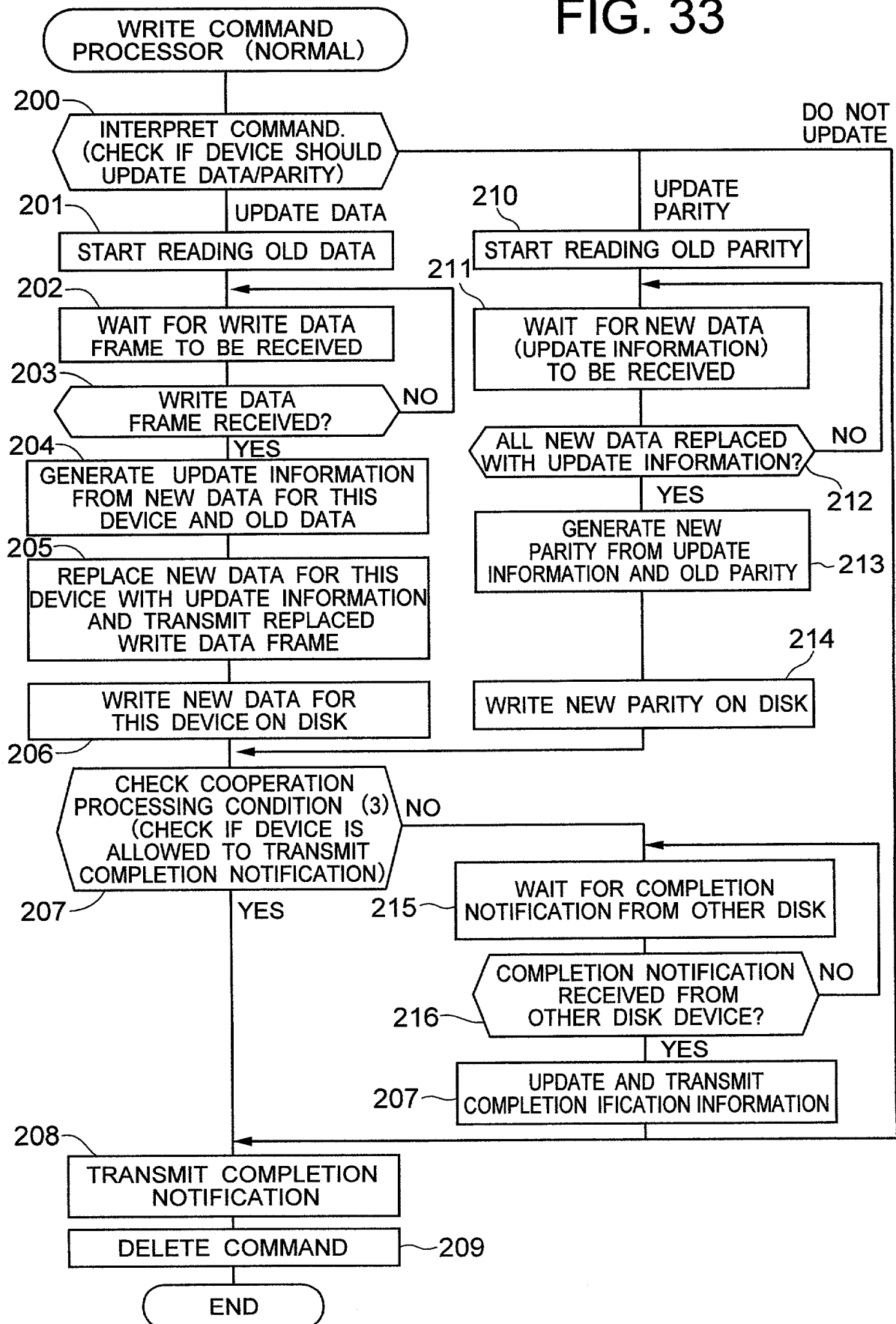


FIG. 34

COOPERATION CONTROL INFORMATION ITEM		STORAGE DEVICE #1	STORAGE DEVICE #2	STORAGE DEVICE #N
STORAGE SYSTEM ID (SHARED ID)		ID_0	←	←
STORAGE DEVICE ID (UNIQUE ID)		ID_1	ID_2	ID_N
POSITION MAP		1	2	N
COMMAND TRANSFER MODE		RECEPTION & RETRANSMISSION	RECEPTION & RETRANSMISSION	RECEPTION ONLY
REDUNDANT CONFIGURATION MANAGEMENT INFORMATION	RAID LEVEL	5	←	←
	NO. OF DATA DISKS	3	←	←
	NO. OF REDUNDANT DATA DISKS	1	←	←
	REDUNDANT DATA MANAGEMENT SIZE	64 (kB)	←	←
	OPERATION MODE (NORMAL/FALLBACK)	FALLBACK	←	←
	FAILING STORAGE DEVICE ID	ID_2	←	←

FIG. 35

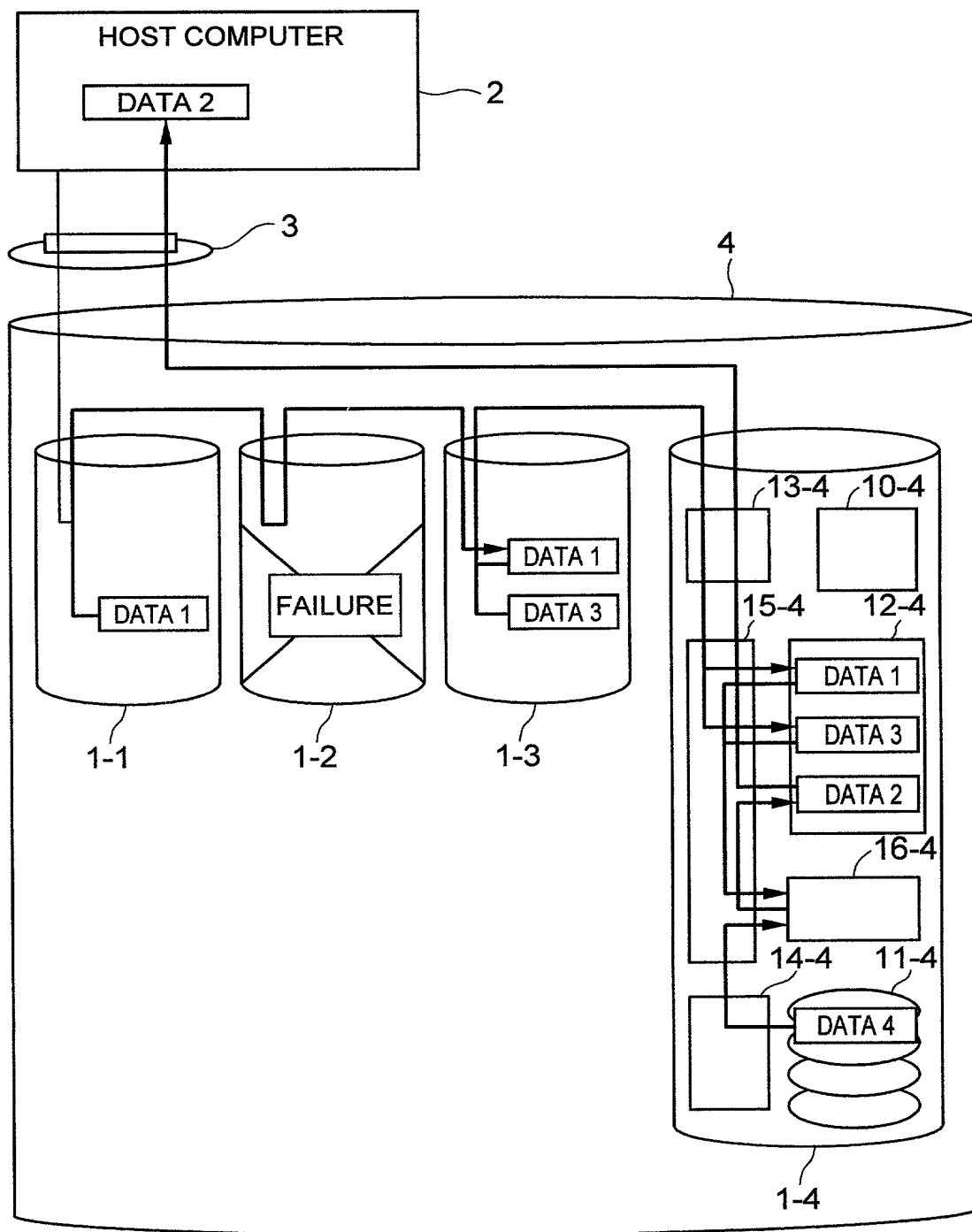


FIG. 36

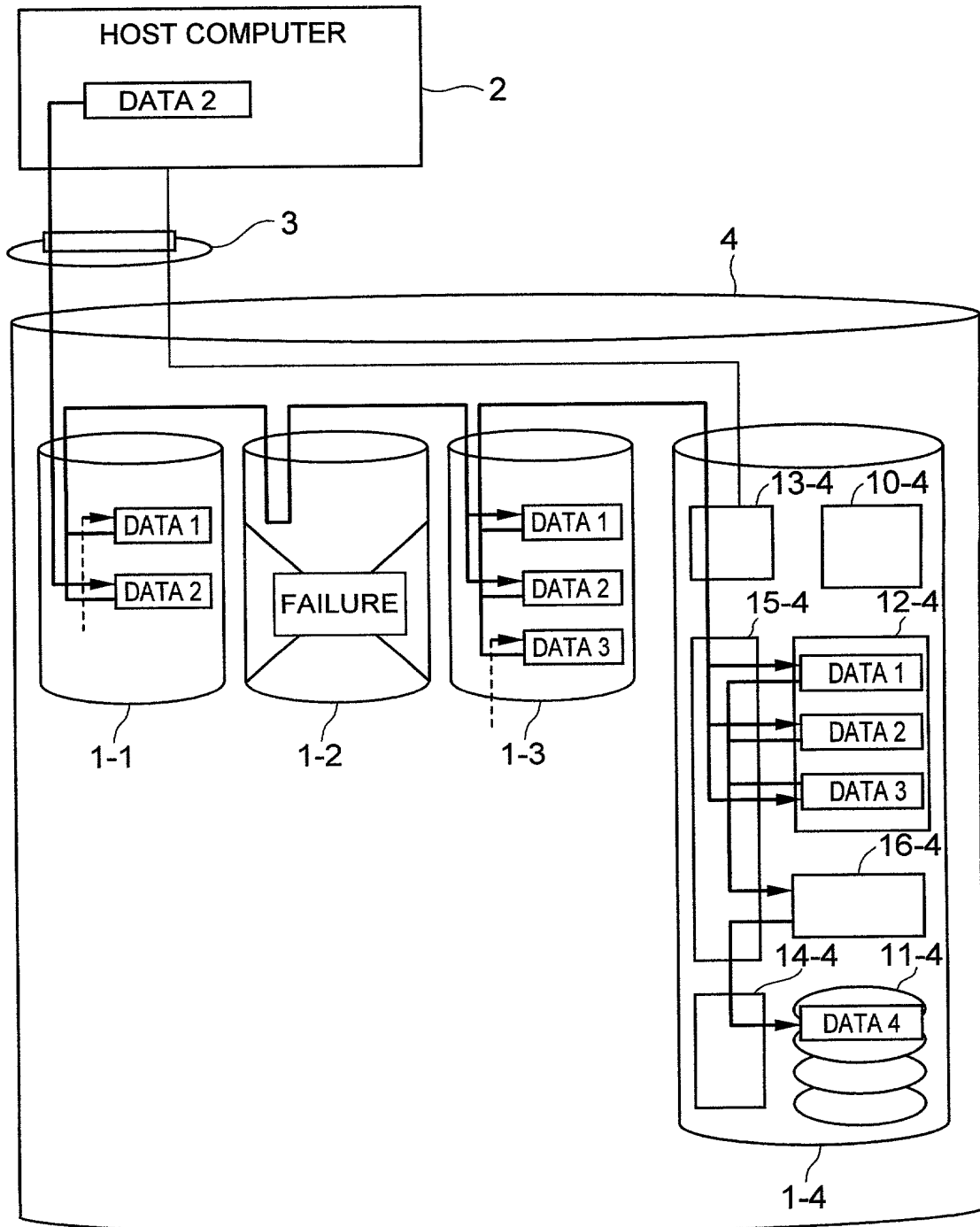


FIG. 37

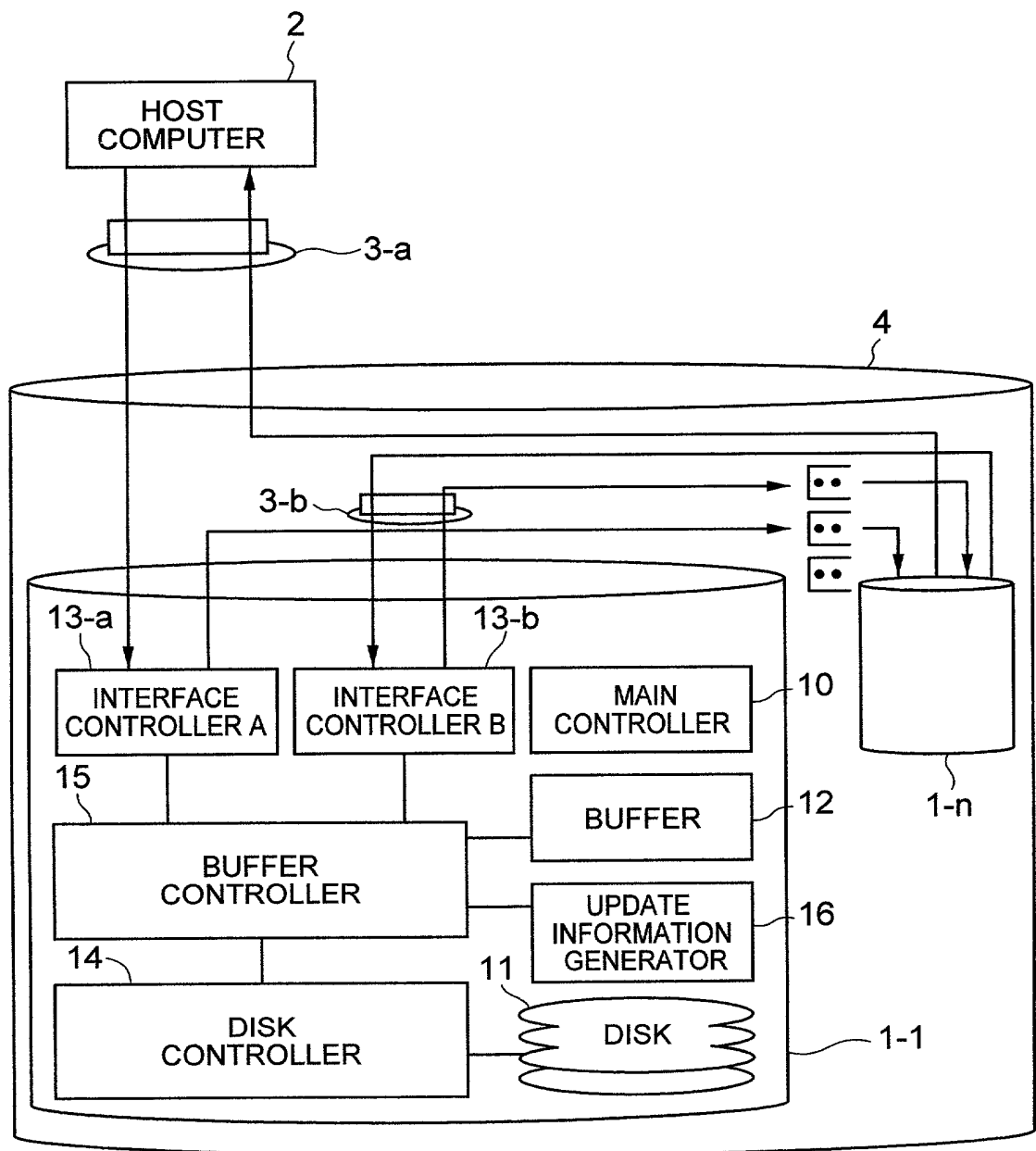


FIG. 38

